

[cylindrical] frame work [wound] with at least one cylinder, a portion of which is covered with at least two [copper filaments] windings, a [steel] piston disposed axially concentric within the cylinder of said frame work, a power source for energizing [one of said copper filaments] said windings with an electric current which induces said [steel] piston to move axially toward the center position of that portion of the cylinder covered by [said copper filaments] an energized winding, at least one switch for controlling the energy flow in each of the said [copper filaments] windings wherein said piston reciprocates based upon the alternate energization of said [coils] windings, and exits that portion of said cylinder wrapped by a winding when that [when an exit] winding is not energized [in one] during a cycle.

14. (CANCELLED)

15. (CANCELLED)

16. (CANCELLED)

17. (CANCELLED)

18. (AMENDED 1st time) An electric motor of claim 13, wherein the most outward movement of the piston travel is kept within that portion of the framework covered by windings.

19. (AMENDED 1st time) An electric motor of claim 13, wherein at least one permanent magnet is placed near at least one end of the cylinder so that the permanent magnet is not in physical contact with either the cylinder or piston.